Dove No 04-5AAF

(DN 8068-1)

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

Please type a plus sign (+) inside this box —

Division of 01-5AAF (DN 8068) (DN 8068) (DN 6068) Method to Issue Kyung-Ju Choi First Inventor SeriesArrangement for Forming Layer Mat of Differing Fibers and Controlle

(Only for new nonprovisional applications under 37	CFR 1.53(b)) Exp	oress Mall Label No.	ER 350021	664 US	
APPLICATION ELEMENTS	4		Assistant Commissi Box Patent Applicat		lo
See MPEP chapter 600 concerning utility patent appl			Washington, DC 20	2231 *	F 23 =
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. Specification [Total Pages [operation of the invention - Cross Reference to Related Applications]]	Computer Programment Computer Programment Computer Programment Computer Real b. Specification Sequential Computer Real computer	o Acid Sequence S sary) dable Form (CRF) nce Listing on:	Submission	22387 U.S. 10/78883
 Statement Regarding Fed sponsored R Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention 		l i. paper c. Statements ve	M or CD-R (2 copie	ove copies	
 Brief Description of the Drawings (if filed Detailed Description) 	9. X Assignment Page	pers (cover sheet &		1
Claim(s)Abstract of the Disclosure		10. X 37 CFR 3.73(b) (when there is) Statement	Power of Attorney	* * * * * * * * * * * * * * * * * * * *
4. X Drawing(s) (35 U.S.C. 113) [Total Shee	ets]	11. X English Transla	ation Document (if	* * * * * * * * * * * * * * * * * * * *	
5. Oath or Declaration [Total Page	es 🔲]	12. X Information Dis		Coples of IDS Citations	
a. Newly executed (original or copy) Copy from a prior application (37 CF)	2.4.62.63	13. X Preliminary Am	nendment		
b. (for continuation/divisional with Box 1	8 completed)		t Postcard (MPEP : ocifically itemized)	503)	ĺ.,
i. DELETION OF INVENTOR Signed statement attached deleting inv		15. X Certified Copy	of Priority Docume ity is claimed)	ent(s)	
named in the prior application, see 37 1.63(d)(2) and 1.33(b).			Request under 35 plicant must attach		
6. Application Data Sheet. See 37 CFR 1.76					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation X Divisional Continuation-in-part (CIP) of prior application No.: 10 , 028,189 Prior application information: Examiner Group Art Unit: 1733.					
For CONTINUATION OR DIVISIONAL APPS only: The ent Box 5b, is considered a part of the disclosure of the acc The incorporation can only be relied upon when a portio	ompanying continuation	or divisional application as	nd is hereby incorpo	n is supplied under rated by reference.	
19.	CORRESPONDENCE	ADDRESS	•		-
Customer Number or Bar Code Label	jemegaliskovstypilai stračij	or	Correspondence a	oddress below	
Name Ralph B. Br	ick - Reg. No. 1	7444			
c/o Polster	, Lieder, Woodru	ff & Lucchesi, L.C	· · · · · · · · · · · · · · · · · · ·		
Address 12412 Powers	scourt Drive, Sur	ite 200	·····	•	4
City St. Louis	Sta	FD	Zip Code	63131-3615	
Country USA	Telepho	ne Ralph B. Bric 502-895-4672	k Fax	Same-Call Fir	st Line
Name (Print/Type) Ralph B. Brick		Registration No. (Atto	rneylAgent) 17.	1444	ficated
Signature Reland	Bul		Date Feb.	ruary 28, 2004	}

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Attorney's Docket No. 04-5AAF (DN 8068+01)

PATENT

	ž	Anticipal	led Classi	fication of this application:
		Class	442	8ubclass327
				• • •
		. Serial N	umber: X	10 / 028.189
		PRIOR A	APPLICAT	ION Exeminer: Sam Chuan C. Yao
		Art Unit:	1783	3
Box FWC				
ommission	er of Patents and Trac	demarks		
Vashington,	D.C. 20231			
FILE W	RAPPER CONTINUI	NG APPLI	CATIO	N (FWC) TRANSMITTAL
WARNING:	request under the FWC proce	edure "will be c	onsidered	ny not be abandoned since the filing of a to be a request to expressly abandon the continuing application." 37 CFR 1.62(g).
WARNING:	37 CFR 1.62(a) except if the p	arent application on disclosure st	n was with atement u	ication prior to payment of the Issue fee. Idrawn under 37 CFR 1.313(b)(5) "to permit Inder 1.97 in a continuing application." See
WARNING:	The filing of an application at oath or declaration. 37 CFR		ites stage	of an international application requires an
WARNING:	of the new application are dra	wn to the same ejected on the s	invention (grounds o	ed in the first Office action where all claims claimed in the earlier application and would r art of record in the next Office action if EP § 706.07(b).
WARNING:	An application under 37 CF application, 37 CFR 1.62(a),	FR 1.62 is filed and not by filin	l by making a new	ng changes by amendment to the prior application. 37 CFR 1.62(e).
	Filing under 37 CFR 1.62 is point the prior application. 37 C		filed by the	same or less than all the inventors named
	CERTIFICA	ATION UNDE	R 37 CF	R 1.10
rith the United 8 Mail Post Office	States Postal Service on this di	Number FR 3	4,14 28, 5002164	o as attached therein are being deposited 2004 in an envelope as "Express LIS addressed to the: Commissioner
				nB, Brick
		(IYPO C	or pant na	me of person mailing paper)
		. <u>9</u>	> alon	,

NOTE: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. (37 CFR 1.10(b)).

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

This CFR 1.		request for a filing under t	he file wrappe	r cor	ntinuing application proced	ure, 37
		continuation		•		
6	<u> </u>	divisional				
(continuation-in-part (for oa	th or declarati	ion s	see III below)	
		attached is an amendmen			•	
[continuing application to statement under 37 CFR		lerat	ion of an information dis	closure
NOTE:	Accordance	e filing date under 37 CFR 1.62(a . including identification of the plication. The prior application used to the cording to 37 CFR 1.51(a) a prior important of the cordingly, as presently worded, 37 prior application is pending but bald. PARTICULARS	Serial Number, nder 37 CFR 1.62 r complete applica (S) drawings; whe CFR 1.62(f) does not the processing the pr	filing (e) mu etion n nec not pe ng enc	date and applicant's name of toust be " a prior complete application, in comprises: (1) a specification, in cessary; and (4) the prescribed armit the FWC procedure to be used retention fee required by 37 CF	he prior plication." cluding a filing fee. and where
•		, Allioo Lain		•		
A.		olication Serial 12/20/01	No. Q (date).	10 <u>/</u>	028,189	filed
		e (as originally filed <u>Seri</u> I as last amended) Mat	es Arrangement of Differing	for Fibe	Forming Layered Fibrois rs and Controlled Surface	s s
C.	Nar	me of applicant(s) (as or respondence address of		and	as last amended) and Kyung-Ju Choi 8406 Running Spring Driv Louisville, KY 40241	

		FIRST CIVEN NAME	SECOND GIVEN NAME
I. FULL NAME OF INVENTOR	FAMILY NAME	PIKSI UIVEN NAMB	SECORD GIVEN NAME
7 = 7	Choi	Kyung	Ju
<i>y</i>			
RESIDENCE &	СПҮ	STATE OR POREIGN	COUNTRY OF CITIZENSHIP
CTTTZENSHIP		COUNTRY	
.01	Iousville	Kentucky	USA
* 1 41			
POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
	8406 Running Spring	Iousville	. KY 40241
	Drive .	•	•
2. FULL NAME	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
OF INVENTOR		·	٠
RESIDENCE &	CITY	STATE OR POREIGN	COUNTRY OF CITIZENSHIP
CTTIZENSHIP	Cirr	COUNTRY	000.000.00
	4		
POST OFFICE	POST OFFICE ADDRESS	апу	STATE & ZIP CODE/COUNTRY
ADDRESS			
3. FULL NAME	FAMILY NAME	FIRST GIVEN NAME	SECOND DIVEN NAME
OF INVENTOR			•
		and the property of	COUNTRY OF CITIZENSHIP
RESIDENCE &	CTTY	STATE OR POREIGN COUNTRY	. COUNTRY OF CHIZZASHIP
,			
		:	
POST OFFICE	POST OFFICE ADDRESS	СТТҮ	STATE & ZIP CODE/COUNTRY
ADDRESS			
	The state of the s		19

[☐] Continued on added page for inventor's Data

The above identified application, in which no payment of issue fee, abandonment of (other than where the above identified application was abandoned under 37 CFR 1.313(b)(5) to permit consideration of an information disclosure statement under 37 CFR 1.97), or termination of proceedings has occurred, is hereby expressly abandoned as of the filing date of this new application. Please use all the contents of the prior application file wrapper, including the drawings, as the basic papers for the new application.

It is understood that secrecy under 35 U.S.C 122 is hereby waived to the extent that if information or access is available to any one of the applications in the file wrapper of a 37 CFR 1.62 application, be it either this application or a prior application in the same file wrapper, the PTO may provide similar information or access to all the other applications in the same file wrapper.

II. Inventorship statement

NOTE: "If the continuation, continuation-in-part, or divisional application is filed by less than all the inventors named in the prior application a statement must accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application." 37 CFR 1.62(a) [emphasis added].

NOTE: "In the case of a continuation-in-part application which adds and claims additional disclosure by amendment, an oath or declaration as required by § 1.63 must be filed. In those situations where a new oath or declaration is required due to additional subject matter being claimed, additional inventors may be named in the continuing application. In a continuation or divisional application which discloses and claims only subject matter disclosed in a prior application, no additional oath or declaration is required and the application must name as inventors the same or less than all the inventors in the prior application." 37 CFR 1.60(c).

	(complete applicable itelli (a), (b) alloror (c) below)
(a) 😡	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are
	the same
	less than those named in the prior application and it is requested that the following inventor(s) identified above for the prior application be deleted:
	(type name(s) of inventor(s) to be deleted)
(b) 🗆	This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application whose particulars are set out above the inventor(s) in this application are
•	☐ the same
	add the following additional inventor(s)
	(type name of inventor(s) to be added)

(FWC [4-2]—page of 10)

(c)		The	invento	orship for all the claims in this application is
· · · · ·		W	the sa	me
			not the	same, and an explanation, including the ownership of the various at the time the last claimed invention was made, is submitted.
ш.	Dec	lara	tion o	r oath
- A.	Cont	tinuat	ion or o	divisional — Copy included with copy of Specification
			e requi	
В.	Con	tinuat	tion-in-p	part
		atta	ched	
		exe	cuted b	y (check all applicable items)
			□ inv	ventor(s).
			☐ leg	gal representative of inventor(s). 37 CFR 1.42 or 1.43.
				nt inventor or person showing a proprietary interest for inventor who used to sign or cannot be reached. 37 CFR 1.47;
· ·				This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. (See Item VIII below for fee.)
		not	attache	
٠.				Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all of the above named applicant(s). (The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently.)
			. 🗆	Attached is a showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d).)
IV.	Idei	ntific	ation	of Claims for Further Prosecution
WAI	RNIN	w eq in or \$ The	there (1) optication, the earlief record in 706.07(b)	be charged are to be based on the number of claims remaining as
	•	⊠	attache	d preliminary amendment.
	٠			entered amendment filed under 37 CFR 1.116 in the prior application, s now repeated.
			the clai	ms as on file in the prior application.

V. Fee Calculation (37 CFR 1.16)

NOTE: The filing fee for a continuation, continuation-in-part, or divisional application is based on the number of claims remaining in the application after entry of any preliminary amendment and entry of any amendments under 37 CFR 1.116 unentered in the prior application which is requested to be entered in this F' application. 37 CFR 1.52.

	CLAIMS FOR FEE CALC	CULATION	
Number Filed	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$730.00 \$770.
Total Claims (37 CFR 1.16(c) -2	0=	X X-22-00	
Independent Claims (37 CFR 1.16(b)) –	3=	X x\$√7,4√9,9	
Multiple dependent claim(s), if (37 CFR 1.16(d))	any	+ x\$239200	
☐ The fee for extra	claims is not being pa	id at this time.	
	Filing fee calculation	\$	770.00
It may be desirable to fli (0	nsion of Prosecution t	a first action final for the compity (e.g., experiment of prosecution for the classificable) to Suspend Prose	is continuation application tal data is being gathered) me necessary.
/II. Small Entity State	ment		
☐ A verified statem	ent that this is a filing I	by a small entity is	s attached.
0 /	statement was filed in t which parent ap s still proper and its be	plication was filed	on
Reduced fill	ing fee calculation (50%	6 of above) \$	
filed in each application o	tatus as a small entity must b or patent in which the status is 1.62 of this part where the st s still proper."	evallable and desired,	except those applications
	CFR 1.28(a) states: "Application	ons filed under § 1.60 o	r § 1.62 of this part must

Any excess of the full fee paid will be refunded if a verified statement and a refund request are filed within 2 months of the date of timely payment of a full fee then the excess fee paid will be refunded on request. 37 CFR 1.28(a).

include a reference to a verified statement in a parent application if status as a small entity is still proper

and desired."

VIII. Fe	e Payment Being Made at This Time			
Not	attached			
	No filing fee is submitted. (This and the surcharge requirements)	ired l	by 37 CFF	7 1.16(8)
Atta	<u>iched</u>			
	filing fee	\$	770.00	
	recording assignment (\$40.00; 37 CFR 1.21(h)). For payment of fee see item XIV below.		٠	
	petition fee for filing by other than all the inventors or person not the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 CFR 1.47 and 1.17(h))			.•
	processing and retention fee (\$130.00; 37 CFR 1.53(d) and 1.21(l))	\$		
fai Ci ba	7 CFR 1.21(f) establishes a fee for processing and retaining any application pursuant to 37 CFR 1.53(d) and this, FR 1.53 and 1.78 indicate that in order to obtain the benefit of a pricasic filing fee must be timely paid or the processing and retention fee in year from the notification under § 1.53(d).	es wei	l as the char application,	nges to 37 either the
•	Total fees enclosed	\$_		
IX. Met	hod of Payment of Fees	014		
Ċ	Attached is check in the amount of	\$_		
	Charge Account No in the amount of	\$	• • • • • • • • • • • • • • • • • • • •	orte le
	☐ A duplicate of this request is attached.			
	ees should be itemized in such a manner that it is clear for which purp 22(b).	ose the	fees are pai	ld. 37 CFR
X. Auth	orization to Charge Additional Fees		•	
WARNIN	G: If no fee payment is made at this time this item should not be c	omplet	ed.	
WARNIN	G: Accurately count claims, especially multiple dependent claims, to a if extra claim charges are authorized.	vold ur	rexpected his	gh charges
Ø	The Commissioner is hereby authorized to charge the which may be required by this paper and during the application to Account No. 16-2201			
	☐ 37 CFR 1.16(a), (f) or (g) (filing fees)			
	☐ 37 CFR 1.16(b), (c) and (d) (presentation of extra	claims	s)	
m se ∵ se	ecause additional fees for excess or multiple dependent claims not paid on sust only be paid or these claims cáncelled by amendment prior to the at for response by the PTO in any notice of fee deficiency (37 CFR 1 uthorize the PTO to charge additional claim fees, except possibly when the action.	expin .16(d))	ation of the t it might be i	ilme period best not to
	☐ 37 CFR 1.16(e) (surcharge for filing the basic filing on a date later than the filing date of the applicat		and/or de	claration
	C 37 CER 1 17 (application processing fees)			

WARNING	While 37 CFR 1.17(a), (b), (c) and (d) deal with extensions of time under § 1.136(a) this authorization should be made only with the knowledge that: "Submission of the appropriate extension fee under 37 CFR 1.136(a) is to no avail unless a request or petition for extension is filed" (Emphasis added). Notice of November 5, 1985 (1060 O.G. 27).
	☐ 37 CFR 1.18 (Issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311(b))
of a	nere an authorization to charge the issue fee to a deposit account has been filed before the mailing a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time mailing the Notice of Allowance, 37 CFR 1.311(b).
ls ; "ent	om the wording of 37 CFR 1.28(b): (a) notification of change of status must be made even if the fee coald as "other than a small entity" and (b) no notification is required if the change is to another small city. Notification of any change of status resulting in loss of entitlement to small entity status must filed in the application prior to, or at the time of, paying the issue fee. 37 CFR 1.28(b).
XI. Instr	uctions as to Overpayment
	Credit Account No. 16-2201
	Refund
XII. Prio	rity—35 U.S.C. 119
	Priority of application Serial No. 910/ 028,189 filed on
	12/20/01 in USA is claimed under
	35 U.S.C. 119. (country)
(The certified copy has been filed on in prior U.S. application Serial No. 0 /, which prior application was filed on
	□ certified copy will follow
XIII. Rel	ate Back—35 U.S.C. 120
	Amend the specification by inserting before the first line the sentence:
"This is a	
1	□ continuation
l	□ divisional
	□ continuation-in-part
of copen	ding application(s)
ſ	Serial Number &10/ 028,189 filed on 12/20/01
í	International Application filed onand which designated the U.S."
	proper reference to a prior filed PCT application which entered the U.S. national phase is the U.S. all number and the filing date of the PCT application which designated the U.S.
XIV. Ass	ignment '
	The prior application is assigned of record toAAF Mousy, Inc.
w	The prior application is assigned of 16001d to
_	

. [An assignment of the invention to	AAF MCQUAY INC
•	is attached. A separate "COVE ACCOMPANYING NEW PATENT A attached.	R SHEET FOR ASSIGNMENT (DOCUMENT) APPLICATION" or FORM PTO 1595 is also
NOTE:	"If an assignment is submitted with a new appl and one for the assignment." Notice of May	cation, send two separate letters - one for the application 4, 1990 (1114 O.G. 77-78).
XV. P	ower of Attorney	
	oower of attorney in the prior applicate Ralph B. Brick	tion is to
(Att	omey) The power appears in the original	(Reg. No.) papers in the prior application.
b. [The power does not appear in the	original papers, but was filed on
c. [A new power has been executed	and is attached.
d. [Address all future communication	s to:
	Ralph B. Brick	17444
	(Name) Polster, Lieder, Woodnu 12412 Powerscourt Drive, Suite	ff & Incchesi (Reg. No.)
	(Address) St. Louis, MD 63131-3615	Telephone Calls to Raliph B. Brid 502-895-4672
		(Tel. No.)
(It	em d may only be completed by app	licant, or attomey or agent of record.)
XVI. I	Maintenance of Copendency of	Prior Application
(This it	em must be completed and the nece the period set in the pri	ssary papers filed in the prior application if or application has run.)
. С	A petition, fee and response has prior application until	been filed to extend the term in the pending
NOTE:		ion filed in the prior application extending the term for ng the filing of the continuation application. Notice of
	A copy of the petition for e attached.	xtension of time in the prior application is
XVII.	Conditional Petitions for Exter	sion of Time in Prior Application
(com	plete this item and file conditional pe not app	atition in prior application if previous item licable)
. C	A conditional petition for extension application	on of time is being filed in the pending prior
NOTE:		ion filed in the prior application extending the term for ng the filing of the continuation application. Notice of
	Acopy of the conditional petiti	on for extension of time in the prior application

XVIII.	Abandonment of Prior Application
	Please abandon the prior application at a time while the prior application is pending or when the petition for extension of time or to revive in that application is granted and when this application is granted a filing date so as to make this application copending with said prior application. At the same time please add the words "now abandoned" to the amendment to the specification set forth in XIII above.
	According to the Notice of May 13, 1983 (103 TMOG 6-7), the filing of a continuation or continuation-in- part application is a proper response with respect to a petition for extension of time or a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.
NOTE:	"A registered attorney or agent acting under the provisions of \$ 1.34(a), or of record, may also expressly abandon a prior application as of the filing date granted to a continuing application when filing such a continuing application." 37 CFR 1.138.
XIX. I	nformation Disclosure Statement
	Submitted herewith is an Information Disclosure Statement.
XX. A	ssignee Certification
	reference may be made to a statement filed under 37 CFR 3.73(b) in the parent application or a copy of that statement may be filed. A newly executed statement under 37 CFR 3.73(b) must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64. (Complete the following if the assignee is signing below)
	This is a ☐ continuation ☐ divisional application and the statement under 37 CFR 3.73(b)
•	☐ has been filed in the parent application.
	a copy of the previously filed statement in the parent application is attached. This is a continuation-in-part application and a "CERTIFICATE UNDER 37 CFR 3.73(b)" is attached. Ralph B. Brick (type or pint name of parson signing declaration)
Febra	wary 28, 2004 Rain Break
2303 Tu	ckaho Road Reg. No. 17444 ss of Signatory)
	lle, KY 40207
(if applica Tel. No. Reg. No.	:(502) 895-4672

(complete the following if applicable)

AAF-McQuey, Inc.	
(type name of assignee)	
10300 Ormsby Pa	rk Place Suite 600
(Address of assignee)	
(Address of assignee) Louisville, Kentuci	Ky 40220
	<u> </u>
(Title of person authorized to sign on t	pehalf of assignee)
Assignment recorded in PTO on _	
Reel <u>012667</u> Frame <u>0966</u>	
	AGE FOR INVENTOR'S DATA FOR FWC FILING
NEW PATENT	ENT (DOCUMENT) COVER LETTER ACCOMPANYING
(ACA I MICH	W STATE OF THE STA
·	SIGNATURE OF ATTORNEY
	Dach & Bruh
Ros No. 17444	
Reg. No. 17444	Ralph B. Brick
	(type or print name of attorney)
Tel. No.: ()502-895-4672	Polster, Lieder, Woodruff & Lucchesi
	12412 Powerscourt Drive, Suite 200
	(P.O. Address)
	St. Iois, MD 63131-3615